SIEMENS

Data sheet

3RU2116-0BB0



Overload relay 0.14...0.20 A Thermal For motor protection Size S00, Class 10 Contactor mounting Main circuit: Screw Auxiliary circuit: Screw Manual-Automatic-Reset

product brand name SIRIUS product designation sRU2 Contrait lochnical data sRU2 size of overload relay S00 size of contactor can be combined company-specific S00 power loss [W] for rated value of the current at AC in hot 4.8 W operating state 1.6 W insulation voltage with degree of pollution 3 at AC rated value 680 V surge voltage resistance rated value 680 V surge voltage resistance rated value 68V V maximum permissible voltage for protective separation in networks with grounded star point 440 V • between auxiliary dricuit 440 V • between main and auxiliary circuit 440 V • between main and prove topolesconding to ATEX directive 2014/34/EU <	and use brand meno	
product type designation 3RU2 General technical data	•	
Control Control size of overload relay S00 size of contactor can be combined company-specific S00 power loss [W] for rated value of the current at AC in hot 4.8 W operating state 1.6 W insulation voltage with degree of pollution 3 at AC rated value 690 V surge voltage resistance rated value 64V maximum permissible voltage for protective separation in networks with grounded star point 440 V • between auxiliary and auxiliary circuit 440 V • between main and auxiliary circuit 400 V • between main and auxiliary circuit		
size of overload relay S00 size of contactor can be combined company-specific S00 power loss [W] for rated value of the current at AC in hot operating slate 4.8 W • per pole 1.6 W insulation voltage with degree of pollution 3 at AC rated value 680 V surge voltage resistance rated value 61 V maximum permissible voltage for protective separation in networks with grounded star point 440 V • between auxiliary and auxiliary circuit 440 V • between main and auxiliary circuit 440 V • between de according to IEC 60088-2-27 8g /11 ms type of protection according to IEC 801346-2 F Substance Prohibitance (Date) 10/01/2009 Ambient conditions 2000 m ambient temperature 40 +70 °C • during operation -55 +80 °C • during operation -55 +80 °C • during transport -55 +80 °C <td< th=""><th></th><th>3RU2</th></td<>		3RU2
size of contactor can be combined company-specific S00 power loss [W] for rated value of the current at AC in hot operating state 4.8 W • per pole 1.6 W insulation voltage with degree of pollution 3 at AC rated value 690 V surge voltage resistance rated value 690 V maximum permissible voltage for protective separation in networks with grounded star point 40 V • between auxiliary and auxiliary circuit 440 V • between main and auxiliary circuit 440 V • between auxiliary circuit 40 V • between auxiliary circuit 40 V • stork starce according to IEC 80068-22 F Substance Prohibitance (Date)<		
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maximum permissible voltage for protective separation in networks with grounded star point 440 V • between auxiliary and auxiliary circuit 440 V • between main and auxiliary circuit 440 V • between according to IEC 60068-2-27 8g /11 ms type of protection according to ATEX directive 2014/34/EU Ex II (2) GD certificate of suitability according to ATEX directive 2014/34/EU DMT 98 ATEX G 001 reference code according to IEC 81346-2 F Substance Prohibitance (Date) 10/01/2009 Ambient conditions 10/01/2009 ambient temperature 400 +70 °C • during storage -55 +80 °C • during transport -55 +80 °C temperature compensation -40 +60 °C relative humidity during operation 10 95 % Main circuit<	insulation voltage with degree of pollution 3 at AC rated value	690 V
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between auxiliary and auxiliary circuit between main and auxiliary circuit between the auximum between tween auximum auximum between the auximum auximum between the auximum auximum between the auximu		
between main and auxiliary circuit between main and auxiliary circuit between main and auxiliary circuit 440 V between main and auxiliary circuit 440 V shock resistance according to IEC 60068-2-27 8g / 11 ms type of protection according to ATEX directive 2014/34/EU Ex II (2) GD certificate of suitability according to ATEX directive 2014/34/EU DMT 98 ATEX G 001 reference code according to IEC 81346-2 F Substance Prohibitance (Date) 10/01/2009 Ambient conditions installation altitude at height above sea level maximum ambient temperature during operation during storage during storage during transport during operation during operation during operation during operation during operation during operation during transport during operation during operation during operation during operation during operation during operation during transport during operation du	 between auxiliary and auxiliary circuit 	440 V
• between main and auxiliary circuit 440 V shock resistance according to IEC 60068-2-27 8g / 11 ms type of protection according to ATEX directive 2014/34/EU Ex II (2) GD certificate of suitability according to ATEX directive 2014/34/EU DMT 98 ATEX G 001 reference code according to IEC 81346-2 F Substance Prohibitance (Date) 10/01/2009 Ambient conditions 2 000 m ambient temperature - • during operation -40 +70 °C • during storage -55 +80 °C • during transport -55 +80 °C temperature compensation -40 +60 °C relative humidity during operation 10 95 % Main circuit 3 number of poles for main current circuit 3 adjustable current response value current of the current-dependent overload release 0.14 0.2 A operating voltage 690 V • at AC-3e rated value maximum 690 V	 between auxiliary and auxiliary circuit 	440 V
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Ambient conditions installation altitude at height above sea level maximum 2 000 m ambient temperature -40 +70 °C • during operation -40 +70 °C • during storage -55 +80 °C • during transport -55 +80 °C temperature compensation -40 +60 °C relative humidity during operation 10 95 % Main circuit 3 number of poles for main current circuit 3 adjustable current response value current of the current- 0.14 0.2 A operating voltage 690 V • rated value 690 V • at AC-3e rated value maximum 690 V	reference code according to IEC 81346-2	F
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• during operation-40 +70 °C• during storage-55 +80 °C• during transport-55 +80 °C• temperature compensation-40 +60 °Crelative humidity during operation10 95 %Main circuit3number of poles for main current circuit3adjustable current response value current of the current- dependent overload release0.14 0.2 Aoperating voltage • rated value690 V• at AC-3e rated value maximum690 V	installation altitude at height above sea level maximum	2 000 m
 during storage during storage during transport during transport 55 +80 °C temperature compensation -40 +60 °C relative humidity during operation 10 95 % Main circuit number of poles for main current circuit adjustable current response value current of the current- dependent overload release operating voltage rated value 690 V edit value maximum 690 V 	ambient temperature	
• during transport -55 +80 °C temperature compensation -40 +60 °C relative humidity during operation 10 95 % Main circuit 3 number of poles for main current circuit 3 adjustable current response value current of the current- dependent overload release 0.14 0.2 A operating voltage 690 V • rated value 690 V • at AC-3e rated value maximum 690 V	during operation	-40 +70 °C
temperature compensation -40 +60 °C relative humidity during operation 10 95 % Main circuit 3 number of poles for main current circuit 3 adjustable current response value current of the current- dependent overload release 0.14 0.2 A operating voltage rated value 690 V at AC-3e rated value maximum 690 V 	during storage	-55 +80 °C
relative humidity during operation 10 95 % Main circuit 3 number of poles for main current circuit 3 adjustable current response value current of the current- dependent overload release 0.14 0.2 A operating voltage 690 V • rated value 690 V • at AC-3e rated value maximum 690 V	during transport	-55 +80 °C
Main circuit 3 number of poles for main current circuit 3 adjustable current response value current of the current- dependent overload release 0.14 0.2 A operating voltage 690 V • rated value 690 V • at AC-3e rated value maximum 690 V	temperature compensation	-40 +60 °C
number of poles for main current circuit 3 adjustable current response value current of the current- dependent overload release 0.14 0.2 A operating voltage 690 V • rated value 690 V • at AC-3e rated value maximum 690 V	relative humidity during operation	10 95 %
adjustable current response value current of the current- dependent overload release 0.14 0.2 A operating voltage rated value 690 V at AC-3e rated value maximum 690 V 	Main circuit	
dependent overload release operating voltage • rated value • at AC-3e rated value maximum 690 V	number of poles for main current circuit	3
rated value at AC-3e rated value maximum 690 V	•	0.14 0.2 A
• at AC-3e rated value maximum 690 V	operating voltage	
	• rated value	690 V
operating frequency rated value	• at AC-3e rated value maximum	690 V
	operating frequency rated value	50 60 Hz
operational current rated value 0.2 A	operational current rated value	0.2 A
operational current at AC-3e at 400 V rated value 0.2 A	operational current at AC-3e at 400 V rated value	0.2 A
operating power	operating power	

-+ 4.0.0			
• at AC-3	0.00 100		
- at 400 V rated value	0.06 kW		
— at 500 V rated value	0.06 kW		
— at 690 V rated value	0.09 kW		
• at AC-3e			
— at 400 V rated value	0.06 kW		
— at 500 V rated value	0.06 kW		
— at 690 V rated value	0.09 kW		
Auxiliary circuit			
design of the auxiliary switch	integrated		
number of NC contacts for auxiliary contacts	1		
• note	for contactor disconnection		
number of NO contacts for auxiliary contacts	1		
• note	for message "Tripped"		
number of CO contacts for auxiliary contacts	0		
operational current of auxiliary contacts at AC-15			
• at 24 V	3 A		
• at 110 V	3 A		
• at 120 V	3 A		
• at 125 V	3 A		
• at 230 V	2 A		
• at 400 V	1A		
• at 690 V	0.75 A		
operational current of auxiliary contacts at DC-13			
• at 24 V	2 A		
• at 60 V	0.3 A		
• at 110 V	0.22 A		
• at 125 V	0.22 A		
• at 220 V	0.11 A		
contact rating of auxiliary contacts according to UL	B600 / R300		
	500071000		
Protective and monitoring functions			
Protective and monitoring functions			
trip class	CLASS 10		
trip class design of the overload release	CLASS 10 thermal		
trip class design of the overload release UL/CSA ratings			
trip class design of the overload release UL/CSA ratings full-load current (FLA) for 3-phase AC motor	thermal		
trip class design of the overload release UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value	thermal 0.2 A		
trip class design of the overload release UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value	thermal		
trip class design of the overload release UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value Short-circuit protection	thermal 0.2 A		
trip class design of the overload release UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value Short-circuit protection design of the fuse link	thermal 0.2 A 0.2 A		
trip class design of the overload release UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value Short-circuit protection design of the fuse link • for short-circuit protection of the auxiliary switch required	thermal 0.2 A		
trip class design of the overload release UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value Short-circuit protection design of the fuse link • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions	thermal 0.2 A 0.2 A		
trip class design of the overload release UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value Short-circuit protection design of the fuse link • for short-circuit protection of the auxiliary switch required	thermal 0.2 A 0.2 A		
trip class design of the overload release UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value Short-circuit protection design of the fuse link • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions	thermal 0.2 A 0.2 A fuse gG: 6 A, quick: 10 A		
trip class design of the overload release UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value Short-circuit protection design of the fuse link • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position	thermal 0.2 A 0.2 A fuse gG: 6 A, quick: 10 A any		
trip class design of the overload release UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value Short-circuit protection design of the fuse link • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method	thermal 0.2 A 0.2 A fuse gG: 6 A, quick: 10 A any Contactor mounting		
trip class design of the overload release UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value Short-circuit protection design of the fuse link • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method height	thermal 0.2 A 0.2 A 0.2 A fuse gG: 6 A, quick: 10 A any Contactor mounting 76 mm		
trip class design of the overload release UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value Short-circuit protection design of the fuse link • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method height width	thermal 0.2 A 0.2 A fuse gG: 6 A, quick: 10 A any Contactor mounting 76 mm 45 mm		
trip class design of the overload release UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value Short-circuit protection design of the fuse link • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method height width depth	thermal 0.2 A 0.2 A fuse gG: 6 A, quick: 10 A any Contactor mounting 76 mm 45 mm		
trip class design of the overload release UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value at 600 V rated value Short-circuit protection design of the fuse link for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method height width depth Connections/ Terminals product component removable terminal for auxiliary and 	thermal 0.2 A 0.2 A 0.2 A any Contactor mounting 76 mm 45 mm 70 mm		
trip class design of the overload release UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value Short-circuit protection design of the fuse link for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method height width depth Connections/ Terminals product component removable terminal for auxiliary and control circuit	thermal 0.2 A 0.2 A 0.2 A any Contactor mounting 76 mm 45 mm 70 mm		
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trip class design of the overload release UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value Short-circuit protection design of the fuse link for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method height width depth Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection for main current circuit 	thermal 0.2 A 0.2 A 0.2 A 1.2 fuse gG: 6 A, quick: 10 A any Contactor mounting 76 mm 45 mm 70 mm V No screw-type terminals		
trip class design of the overload release UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value at 600 V rated value Short-circuit protection design of the fuse link for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method height width depth Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection for main current circuit for auxiliary and control circuit arrangement of electrical connectors for main current 	thermal 0.2 A 0.2 A 0.2 A 0.2 A 10.2 A 10		
trip class design of the overload release UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value at 600 V rated value Short-circuit protection design of the fuse link for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method height width depth Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection for main current circuit for auxiliary and control circuit 	thermal 0.2 A 0.2 A 0.2 A 0.2 A 10.2 A 10		
trip class design of the overload release UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value at 600 V rated value Short-circuit protection design of the fuse link for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method height width depth Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection	thermal 0.2 A 0.2 A 0.2 A 0.2 A		
trip class design of the overload release UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value short-circuit protection design of the fuse link of or short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method height width depth Connections/ Terminals product component removable terminal for auxiliary and control circuit of or main current circuit of or auxiliary and control circuit arrangement of electrical connectors for main current circuit upper of connectable conductor cross-sections of or main contacts - solid or stranded	thermal 0.2 A 0.2 A 0.2 A 1.2		
trip class design of the overload release UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value Short-circuit protection design of the fuse link for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method height width depth Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection for main current circuit for auxiliary and control circuit for main current circuit for auxiliary and control circuit arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections for main contacts for main contacts 	thermal 0.2 A 0.2 A 0.2 A fuse gG: 6 A, quick: 10 A any Contactor mounting 76 mm 45 mm 70 mm No screw-type terminals screw-type terminals Top and bottom 2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), 2x 4 mm² 2x (0,5 1.5 mm²), 2x (0,75 2,5 mm²)		
trip class design of the overload release UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value Short-circuit protection design of the fuse link for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method height width depth Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection for auxiliary and control circuit arrangement of electrical connectors for main current circuit for main contacts solid or stranded main contacts solid or stranded with core end processing for AWG cables for main contacts for AWG cables for main contacts	thermal 0.2 A 0.2 A 0.2 A 1.2 A 0.2 A 1.2		
trip class design of the overload release UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value Short-circuit protection design of the fuse link for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method height width depth Connections/ Terminals product component removable terminal for auxiliary and control circuit for auxiliary and control circuit arrangement of electrical connectors for main current circuit for main contacts solid or stranded main correctsing for main contacts for leever conductor cross-sections for main contacts	thermal 0.2 A 0.2 A 0.2 A fuse gG: 6 A, quick: 10 A any Contactor mounting 76 mm 45 mm 70 mm No screw-type terminals screw-type terminals Top and bottom 2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), 2x 4 mm² 2x (0,5 1.5 mm²), 2x (0,75 2,5 mm²)		

-	nded with core end process	ing	2x (0.5 1.5 mm ²), 2x (0.75 2x (0.5 1.5 mm ²), 2x (0.75 2x (20 16), 2x (18 14)	·		
	s for auxiliary contacts		2x (20 16), 2x (18 14)			
tightening torque			0.0 1.0 1			
	ts with screw-type terminals		0.8 1.2 N·m			
for auxiliary contacts with screw-type terminals			0.8 1.2 N·m			
design of screwdriver shaft			Diameter 5 6 mm			
size of the screwdriv	•		Pozidriv PZ 2			
design of the thread	of the connection screw					
 for main contact 	ts		M3			
of the auxiliary	and control contacts		M3			
Safety related data						
failure rate [FIT] with l	ow demand rate according	to SN 31920	50 FIT			
MTTF with high dem	and rate		2 280 a			
T1 value for proof test 61508	interval or service life acco	rding to IEC	20 a			
protection class IP o	n the front according to II	EC 60529	IP20			
•	the front according to IEC		finger-safe, for vertical contac	ct from the front		
Display						
display version for swi	itching status		Slide switch			
Certificates/ approvals	-					
General Product Ap	proval			For use in hazardous	locations	
	<u>Confirmation</u>	(ال س	EAC	IECEx IECEx	K ATEX	
Declaration of Confe	ormity	Test Certificate	es	Marine / Shipping		
UK CA	CC EG-Konf.	<u>Special Test Ce</u> <u>ate</u>	ertific- <u>Type Test Certific-</u> ates/Test Report	ABS	BUREAU	
Marine / Shipping					other	
	Lloyds Register us	PRS	RINA	RMRS RMRS	<u>Confirmation</u>	
other	Railway					
UDE VDE	Vibration and Shock					
Further information						
	d to exit the Russian mark					
https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business Siemens is working on the renewal of the current EAC certificates. Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus). Information on the packaging https://support.industry.siemens.com/cs/ww/en/view/109813875 Information_and Downloadcenter (Catalogs_Brochures)						
Information- and Downloadcenter (Catalogs, Brochures,) https://www.siemens.com/ic10						
Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RU2116-0BB0						
Cax online generator						
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RU2116-0BB0						

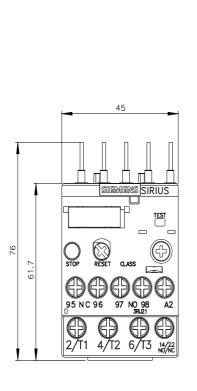
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

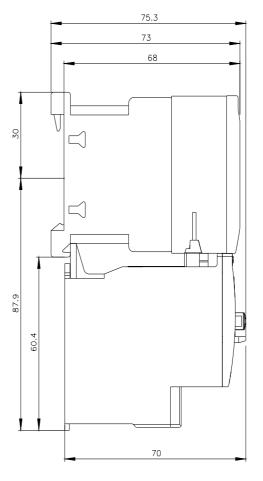
https://support.industry.siemens.com/cs/ww/en/ps/3RU2116-0BB0

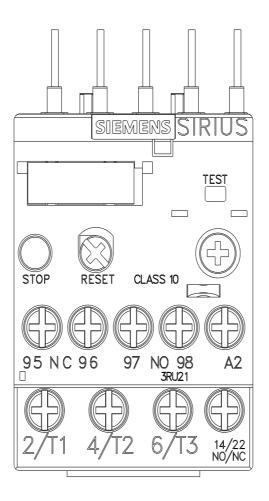
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RU2116-0BB0&lang=en

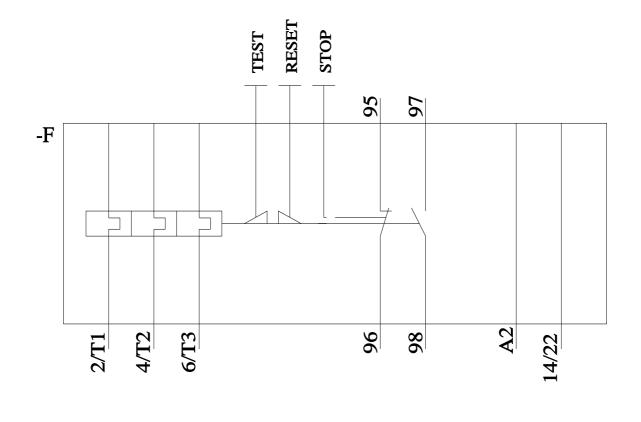
Characteristic: Tripping characteristics, I²t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RU2116-0BB0/char

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RU2116-0BB0&objecttype=14&gridview=view1









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